

WHAT IS CLAIMED IS:

1. A ring mechanism for a loose-leaf binder comprising:

a thin, elongate plate,

at least two ring members supported by the elongate plate for relative movement of the ring members between an open position in which the ring members are spaced apart and loose-leaf pages may be received on and removed from at least one of the ring members, and a closed position in which the ring members are engaged to form a ring which is configured to capture the loose-leaf pages on the ring while permitting movement of the pages along the ring,

the elongate plate having longitudinal ends, at least one of the longitudinal ends including first and second end portions located on one transverse side of the elongate plate, said first and second end portions being bent over to present a longitudinally facing surface which is blunt.

2. A ring mechanism as set forth in claim 1 further comprising a space separating said first and second end portions into distinct tabs extending from the elongate plate.

3. A ring mechanism as set forth in claim 2 wherein said first end portion is bent over onto the second end portion.

4. A ring mechanism as set forth in claim 3 wherein said first and second end portions are free of bends about a common fold line.

5. A ring mechanism as set forth in claim 4 wherein each of said first and second end portions has a single bend.

6. A ring mechanism as set forth in claim 3 wherein the elongate plate further comprises third and fourth end portions on a transverse side of the elongate plate opposite the transverse side of the first and second end portions at said one longitudinal end, and a space separating the third and fourth end portions, said third and fourth end portions being bent over to present a longitudinally facing surface which is blunt.

7. A ring mechanism as set forth in claim 6 wherein the elongate plate further comprises first and second end portions at one transverse side of the elongate plate at another longitudinal end of the elongate plate, a space separating the first and second end portions, third and fourth end portions on an opposite transverse side of the elongate plate at said other longitudinal end, and a space separating the third and fourth end portions, said first and second end portions and said third and fourth end portions at said other longitudinal end being bent over to present longitudinally facing surfaces which are blunt.

8. A ring mechanism as set forth in claim 7 further comprising a lever pivotally mounted on the elongate plate generally at said one longitudinal end for actuating movement of the ring members between said open and closed positions.

9. A ring mechanism as set forth in claim 8 further comprising another lever pivotally mounted on the elongate plate at said other longitudinal end for actuating movement of the ring members between said open and closed positions.

10. A ring mechanism as set forth in claim 9 wherein the levers each have slots, one slot receiving one of the first and second end portions, and another slot receiving

one of the third and fourth end portions at respective
5 longitudinal ends of the elongate plate.

11. A ring mechanism as set forth in claim 10 further
comprising a pair of elongate leaves carried by the
elongate plate, the leaves each mounting a respective one
of the ring members and being pivotable relative to the
5 elongate plate between said open and closed positions of
the ring members, the leaves being operatively connected to
the levers whereby the levers actuate pivoting movement of
the leaves.

12. A ring mechanism as set forth in claim 6 wherein
the first end portion is longer than the second end portion
at each longitudinal end of the elongate plate, and the
third end portion is longer than the fourth end portion at
5 each longitudinal end of the elongate plate.

13. A ring mechanism as set forth in claim 12 wherein
a distal end of the first end portion tapers from a first
length at an inner lateral edge of the first end portion to
a second length at an outer lateral edge of the first end
5 portion, the first length being greater than the second
length, and a distal end of the third end portion tapers
from a first length at an inner lateral edge of the third
end portion to a second length at an outer lateral edge of
the third end portion, the first length of said third end
10 portion being greater than said second length of said third
end portion.

14. A ring mechanism as set forth in claim 6 wherein
the distal end of each of the first, second, third and
fourth end portions is generally perpendicular to the
elongate plate.

15. A ring mechanism as set forth in claim 2 wherein the space comprises a cutout in the elongate plate.

16. A ring mechanism as set forth in claim 1 wherein said first and second end portions are in flatwise contact with one another.

17. A ring mechanism as set forth in claim 16 wherein said first and second end portions are bent over about a common fold line.

18. A ring mechanism as set forth in claim 17 wherein each of said first and second end portions has a single bend.

19. A ring mechanism as set forth in claim 17 wherein the elongate plate further comprises third and fourth end portions on a transverse side of the elongate plate opposite the transverse side of the first and second end portions at said one longitudinal end, said third and fourth end portions being in flatwise contact with one another and bent over about a common fold line to present a longitudinally facing surface which is blunt.

20. A ring mechanism as set forth in claim 19 wherein the elongate plate further comprises first and second end portions at one transverse side of the elongate plate at another longitudinal end of the elongate plate, said first and second end portions being in flatwise contact with one another, third and fourth end portions on an opposite transverse side of the elongate plate at said other longitudinal end, said third and fourth end portions being in flatwise contact with one another, said first and second end portions at said other longitudinal end being bent over about a common fold line to present longitudinally facing

surfaces which are blunt, and said third and fourth end portions at said other longitudinal end being bent over about a common fold line to present longitudinally facing surfaces which are blunt.

21. A ring mechanism as set forth in claim 20 further comprising a lever pivotally mounted on the elongate plate generally at said one longitudinal end for actuating movement of the ring members between said open and closed positions, and another lever pivotally mounted on the elongate plate at said other longitudinal end for actuating movement of the ring members between said open and closed positions.

22. A ring mechanism as set forth in claim 1 in combination with the loose-leaf binder, the ring mechanism being secured to the loose-leaf binder.

23. A ring mechanism for a loose-leaf binder comprising:

a thin, elongate plate,

at least two ring members supported by the elongate plate for relative movement of the ring members between an open position in which the ring members are spaced apart and loose-leaf pages may be received on and removed from at least one of the ring members, and a closed position in which the ring members are engaged to form a ring which is configured to capture the loose-leaf pages on the ring while permitting movement of the pages along the ring,

the elongate plate having longitudinal ends, at least one of the longitudinal ends including first and second end portions located on one transverse side of the elongate plate, said first and second end portions being bent over to present a longitudinally facing surface which is blunt and free of bends about a common fold line.

24. A method of manufacturing a ring mechanism for a loose-leaf binder movable between an open position, capable of receiving loose-leaf pages on and removing loose-leaf pages from at least two spaced apart ring members supported by a thin, elongate plate, and a closed position, capable of capturing loose-leaf pages on the engaged ring members while permitting movement of the pages along the ring members, said method comprising:

forming the thin, elongate plate with first and second at least partially opposed end portions located on one transverse side of the elongate plate; and

bending over the first end portion and the second end portion of the elongate plate to orientations generally perpendicular to a longitudinal axis of the elongate plate.

25. A method as set forth in claim 24 wherein said bending of said first end portion occurs before said bending of said second end portion, said second end portion being bent over onto said first end portion.

26. A method as set forth in claim 24 further comprising pressing said first and second end portions into flatwise contact with one another before said bending.

27. A method as set forth in claim 26 wherein said bending of said first and second end portions occurs about a common fold line.

28. A method as set forth in claim 24 further comprising:

forming the thin, elongate plate with third and fourth at least partially opposed end portions located on the other transverse side of the elongate plate; and

bending over the third end portion and the fourth end portion of the elongate plate to an orientation generally perpendicular to a longitudinal axis of the elongate plate so that said third and fourth end portions present a blunt, longitudinally facing surface.

29. A method as set forth in claim 28 further comprising:

forming the thin, elongate plate with first and second at least partially opposed end portions located on one transverse side of the elongate plate at another longitudinal end of the elongate plate and third and fourth at least partially opposed end portions located on the opposite transverse side of the elongate plate at said other longitudinal end of the elongate plate;

bending over the first and second end portions to an orientation generally perpendicular to a longitudinal axis of the elongate plate; and

bending over the third and fourth end portions to an orientation generally perpendicular to a longitudinal axis of the elongate plate, so that said first, second, third and fourth end portions at said other longitudinal end present longitudinally facing surfaces which are blunt.

30. A method as set forth in claim 24 further comprising positioning a lever adjacent said longitudinal end of the elongate plate and capturing said lever between said first and second end portions and said elongate plate.